A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 G11B27/32 G11B20/12 G11B20/18

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC $\,7\,$ G11B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Α	EP 0 971 349 A (HITACHI LTD) 12 January 2000 (2000-01-12) abstract paragraphs '0009! - '0012! paragraphs '0016! - '0024! figures 2-8	1,7-9
A .	EP 0 965 988 A (SAMSUNG ELECTRONICS CO LTD) 22 December 1999 (1999-12-22) abstract paragraphs '0001! - '0015! paragraphs '0049! - '0082! figures 1-7	1,7-9

 Special categories of cited documents: A document defining the general state of the art which is not 	"T" later document published after the international filing date or priority date and not in conflict with the application but		
considered to be of particular relevance	cited to understand the principle or theory underlying the invention		
E earlier document but published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to		
L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another	involve an inventive step when the document is taken alone		
citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or	 "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family 		
other means			
P document published prior to the international filing date but later than the priority date claimed			
Date of the actual completion of the international search	Date of mailing of the international search report		
26 October 2004	14/02/2005		
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2	Authorized officer		
NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Sucher, R		

Y Patent family members are listed in annex.

Y Further documents are listed in the continuation of box C.



C.(Continua	tion) DOCUMENTS CONSIDERED TO BE RELEVANT			
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